

# **Rare Event Gaming**

## *Connecting the Dots...*



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# DHS Center of Innovation US Air Force Academy

Industry

*Bridging the Innovation Gap*

Federal  
Government



# DHS Center of Innovation US Air Force Academy

**Fulfilling:**

## **Title III, Section 313**

DHS Technology Clearinghouse  
for the Federal Government





# CoI Innovation Approach



The Web 2.0/3.0 cadet generation researching  
and field testing game-changing technologies for  
War Fighters/First Responders

# Focus of Effort: Edge Operators



- Mission Fabric Network
  - Disruptive *Product* Innovation
- Flexible Distributed Control
  - Disruptive *Process* Innovation



# Functions of Flexible Distributed Control

**SYSTEM THAT ENSURES....**

**THE RIGHT INFORMATION**

**GETS TO THE RIGHT PEOPLE**

**AT THE RIGHT TIME**





# Summer 2009 JCS Exercise: Predicting Future Rare Events



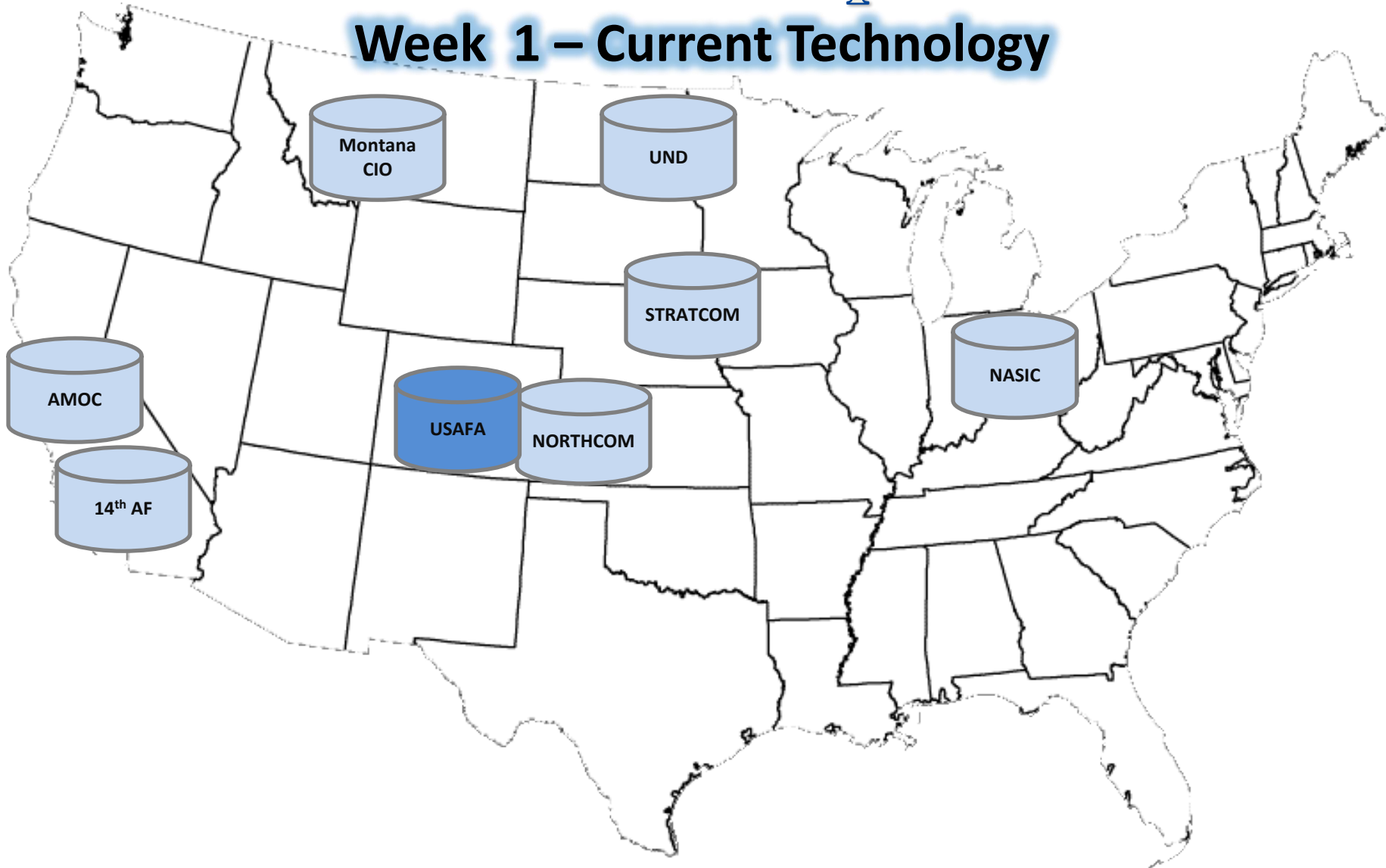
## Distributed Collaboration



# FY09 USAFA

## Mission Fabric Experiment

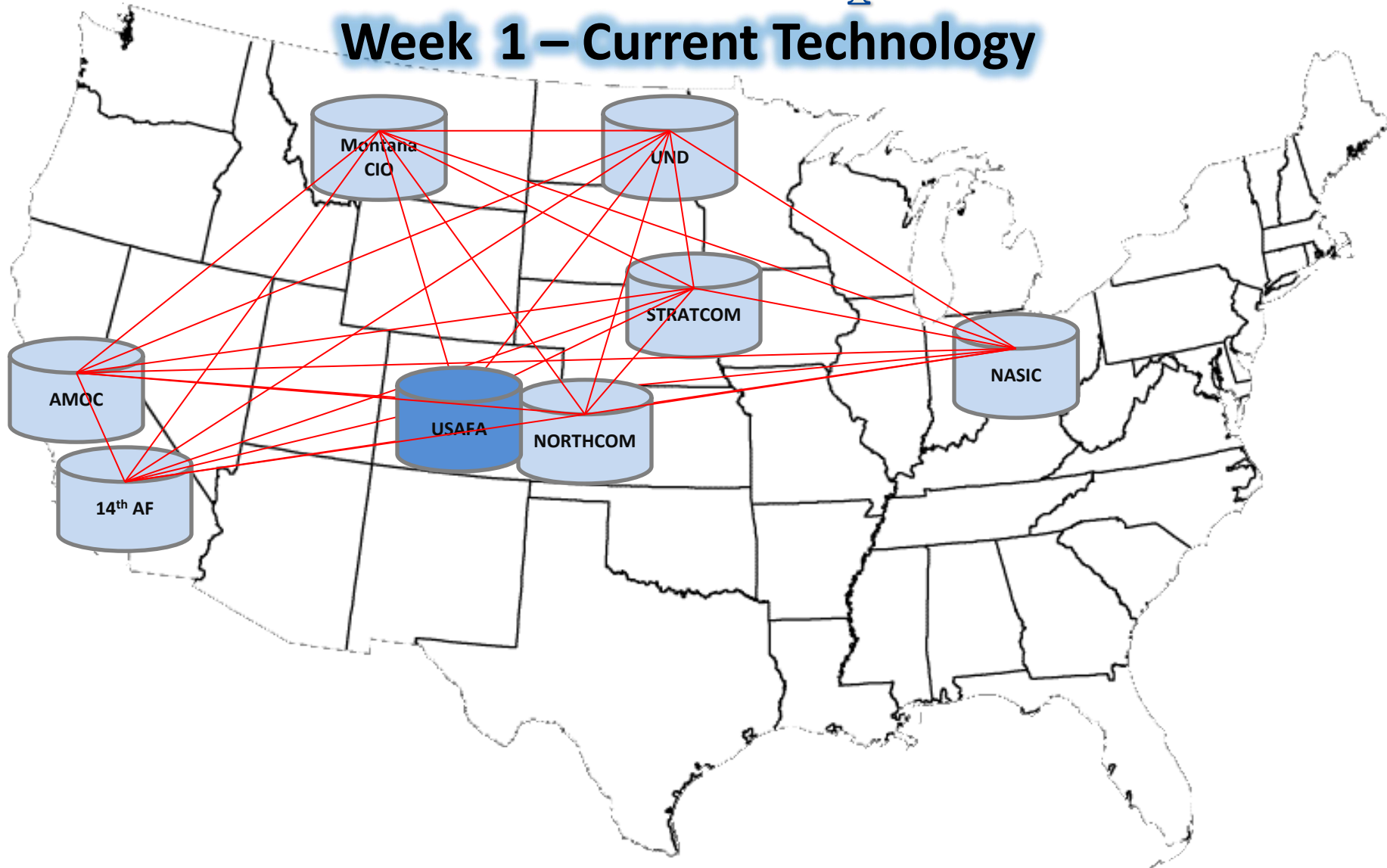
### Week 1 – Current Technology



# FY09 USAFA

## Mission Fabric Experiment

### Week 1 – Current Technology

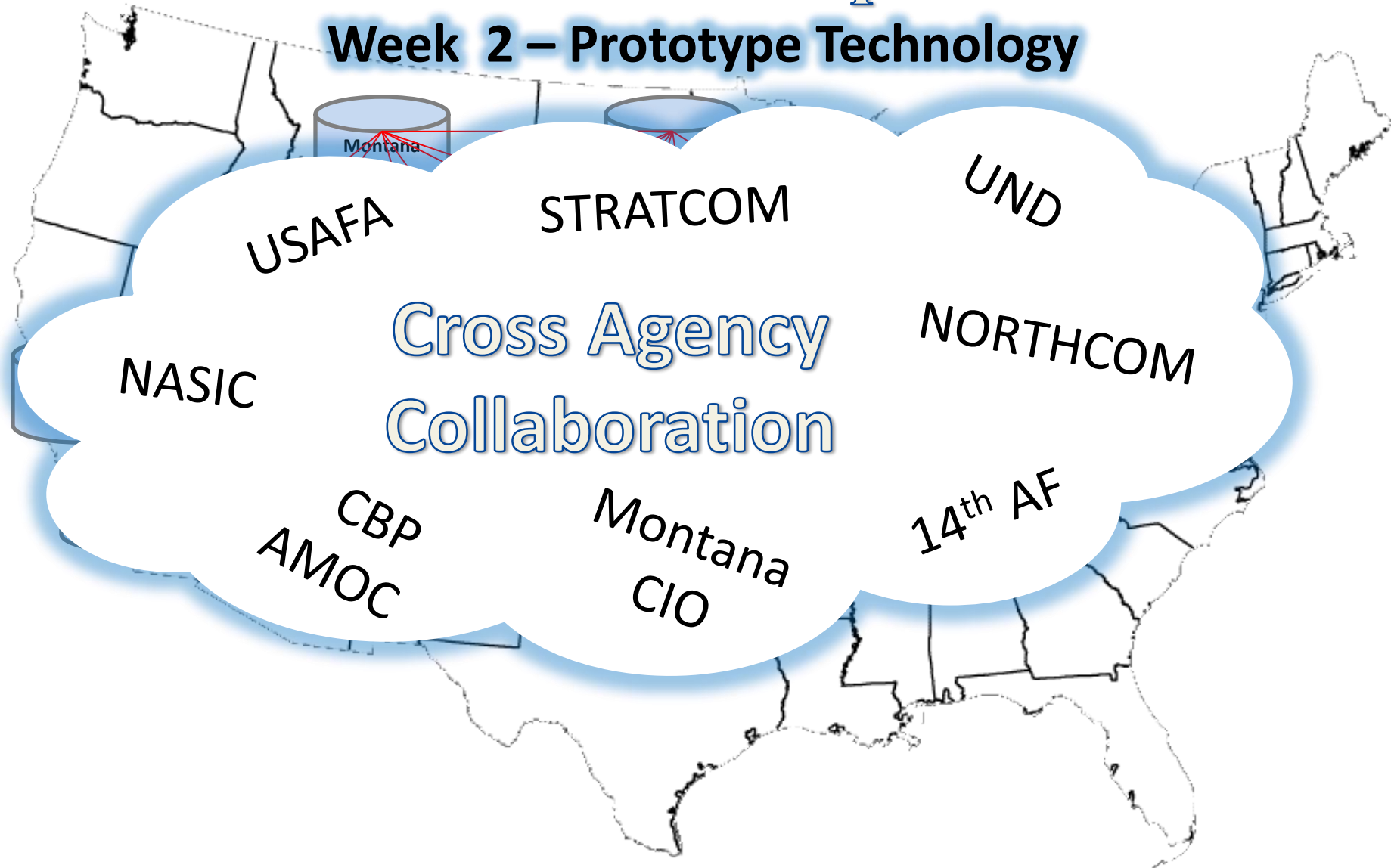




# FY09 USAFA

## Mission Fabric Experiment

### Week 2 – Prototype Technology



# What Did We Learn?

## **Final Report On The US Air Force Academy Mission Fabric Collaboration Experiment**

Conducted under the auspices of the  
Strategic Multi-layer Assessment (SMA) program

September 2009

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### Abstract

The USAFA Mission Fabric experiment was conducted over two 1-week segments (13-17 July and 20-24 July 2009) during which different sets of collaboration tools were available to the participants as they attempted to anticipate a rare event based on information injected over the duration of the experiment. This report presents findings from the experiment.



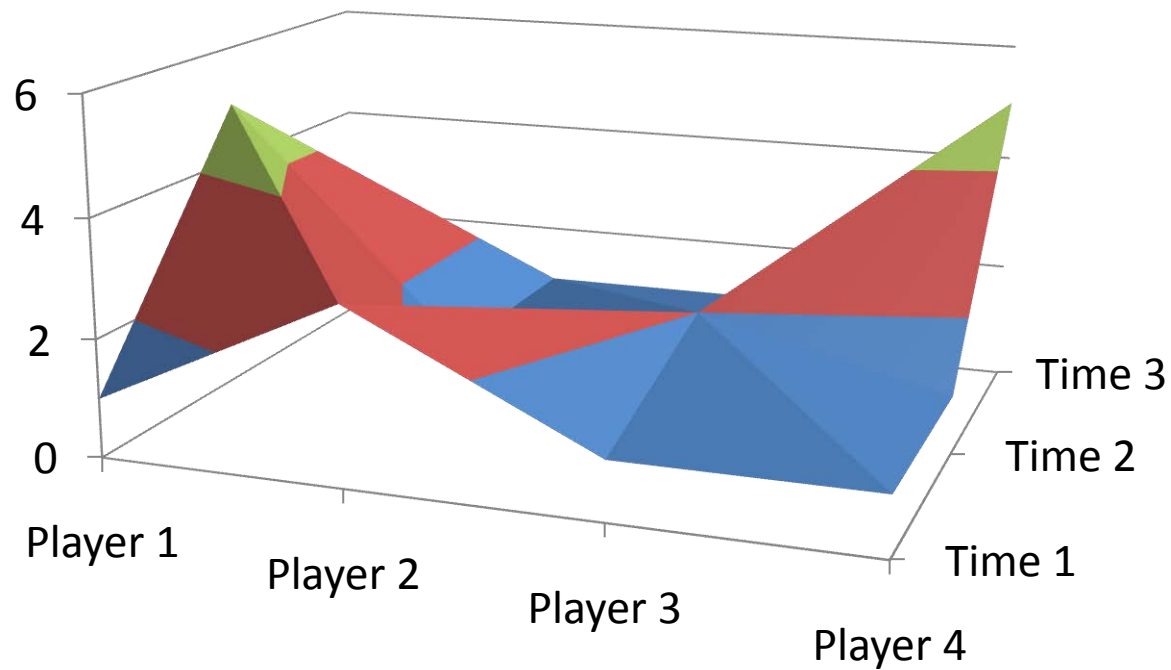


# The Tool Alone Is Not The Answer

“In short, by themselves, the tools alone cannot make people more effective and satisfied; the highest levels of performance and satisfaction arise when appropriate tools are matched with effective processes for employing those tools.” – USAFA Mission Fabric Experiment Final Report Sept 2009



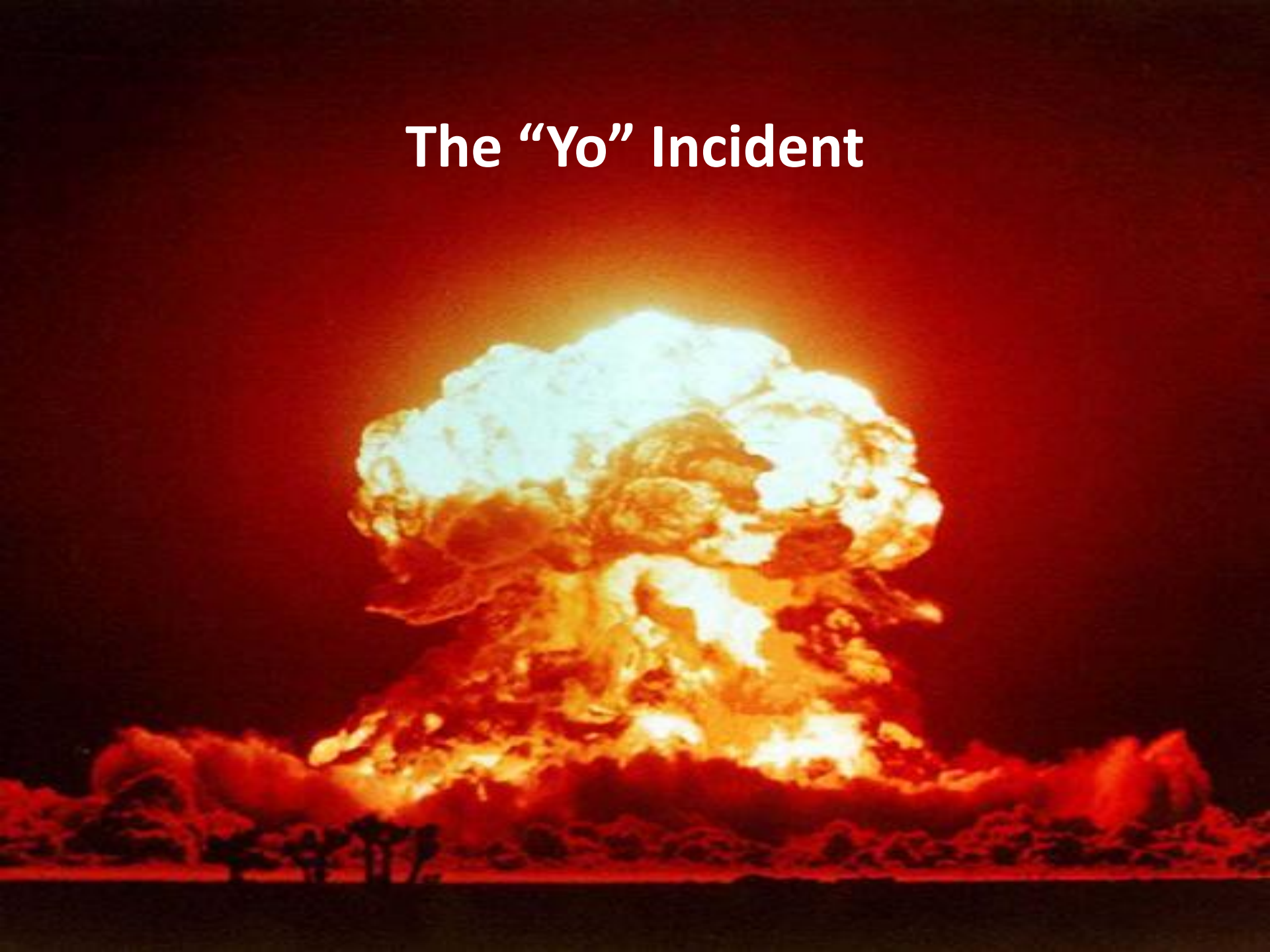
# Process



“Peaks” of leadership spike and dissipate over time



# The “Yo” Incident



A close-up photograph of a human eye with green irises. The eye is looking directly at the camera, and the reflection of the camera lens is visible in the pupil. The text "Visual Trust" is overlaid in a large, bold, black serif font across the center of the eye.

**Visual Trust**



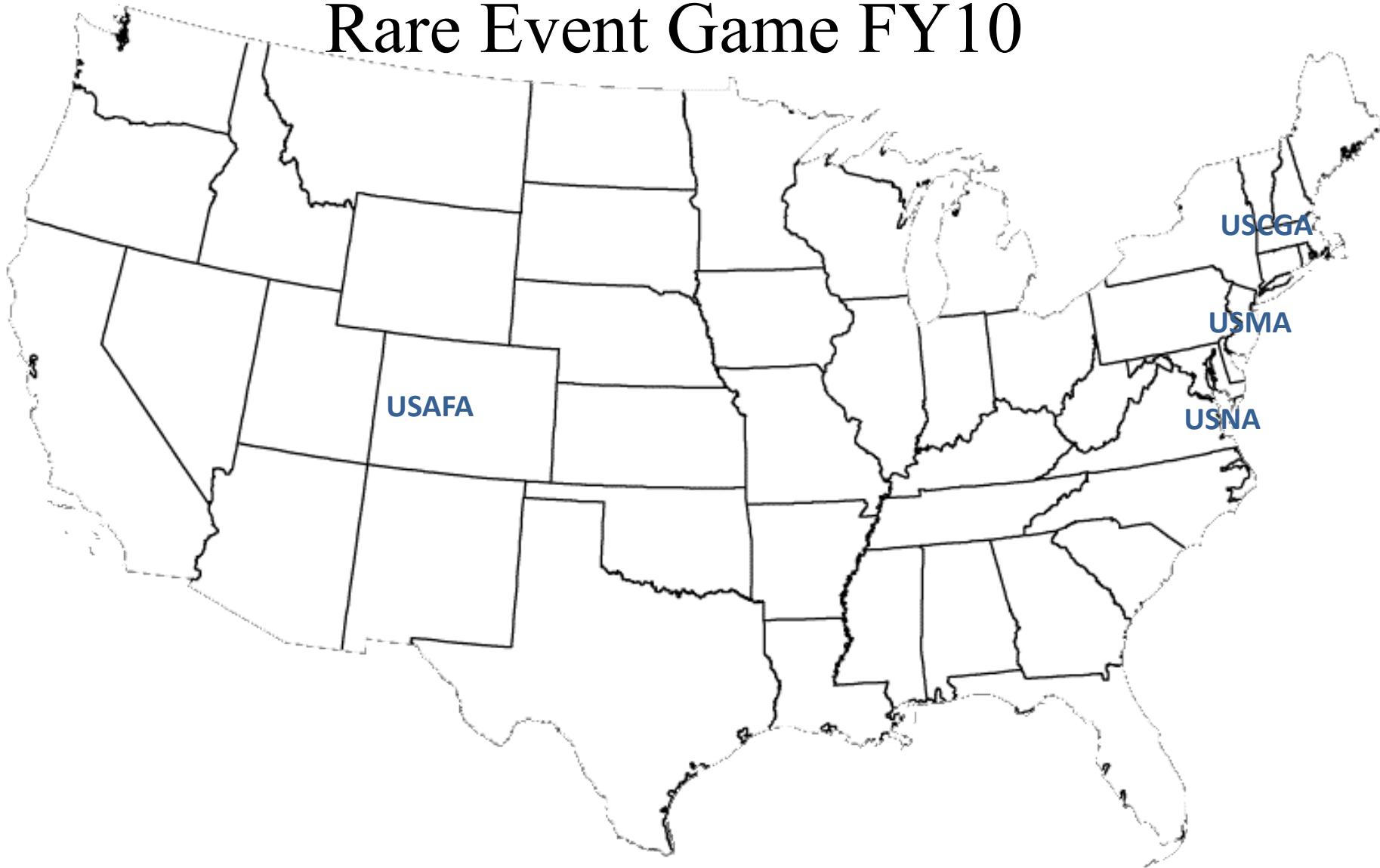
# Where To Go From Here?



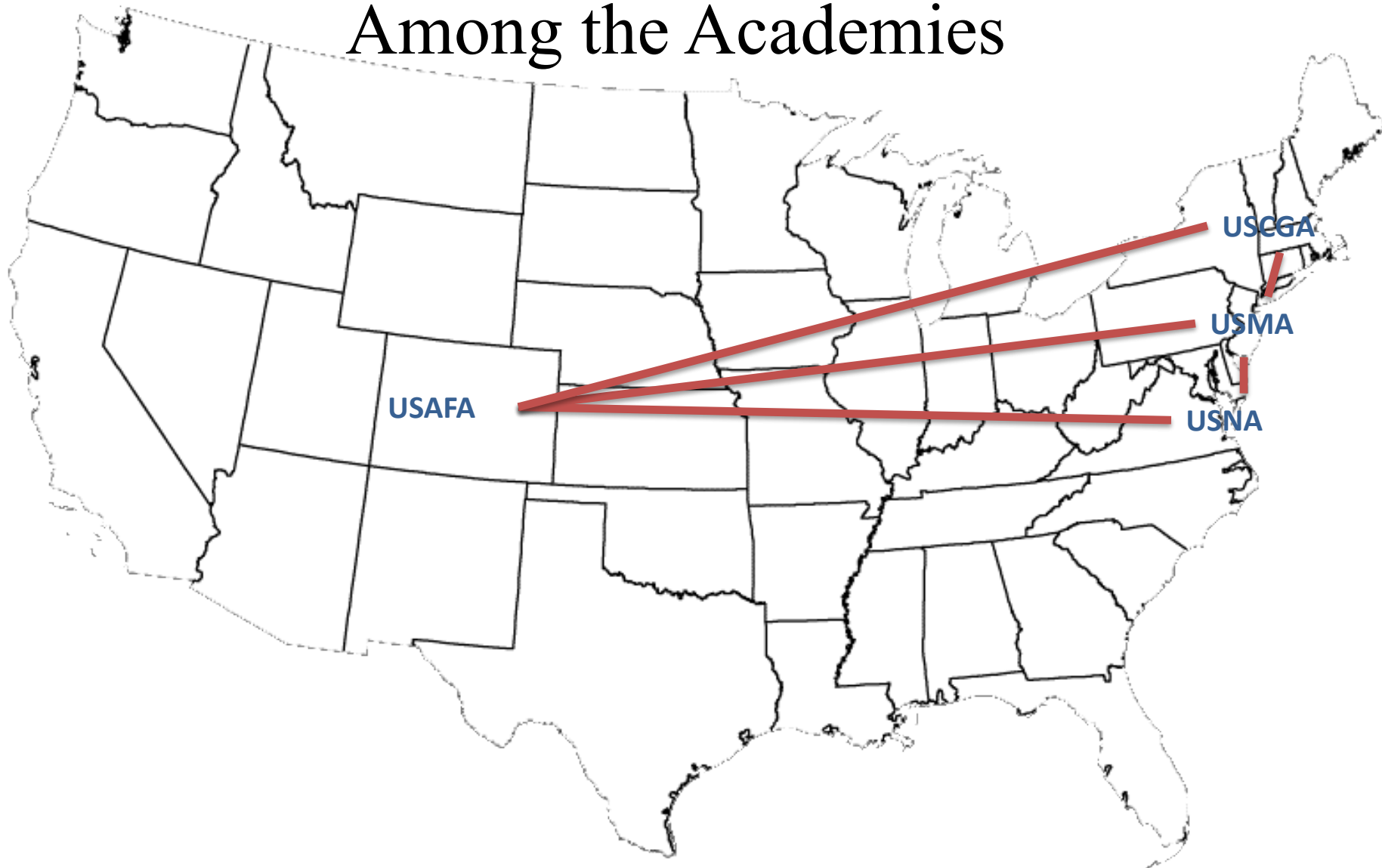


# USAFA Mission Fabric

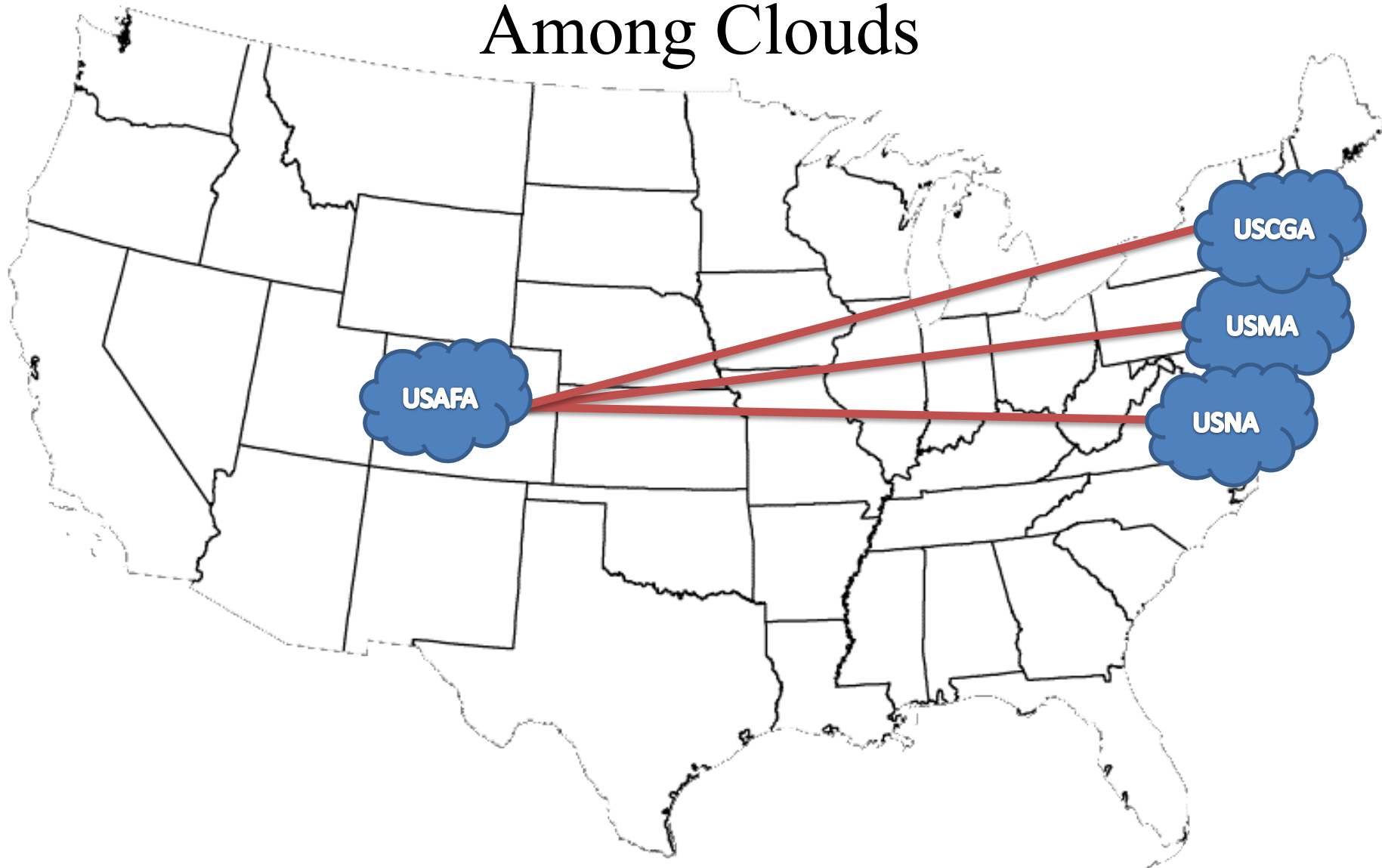
## Rare Event Game FY10



# Field Testing Intelligent Network Among the Academies

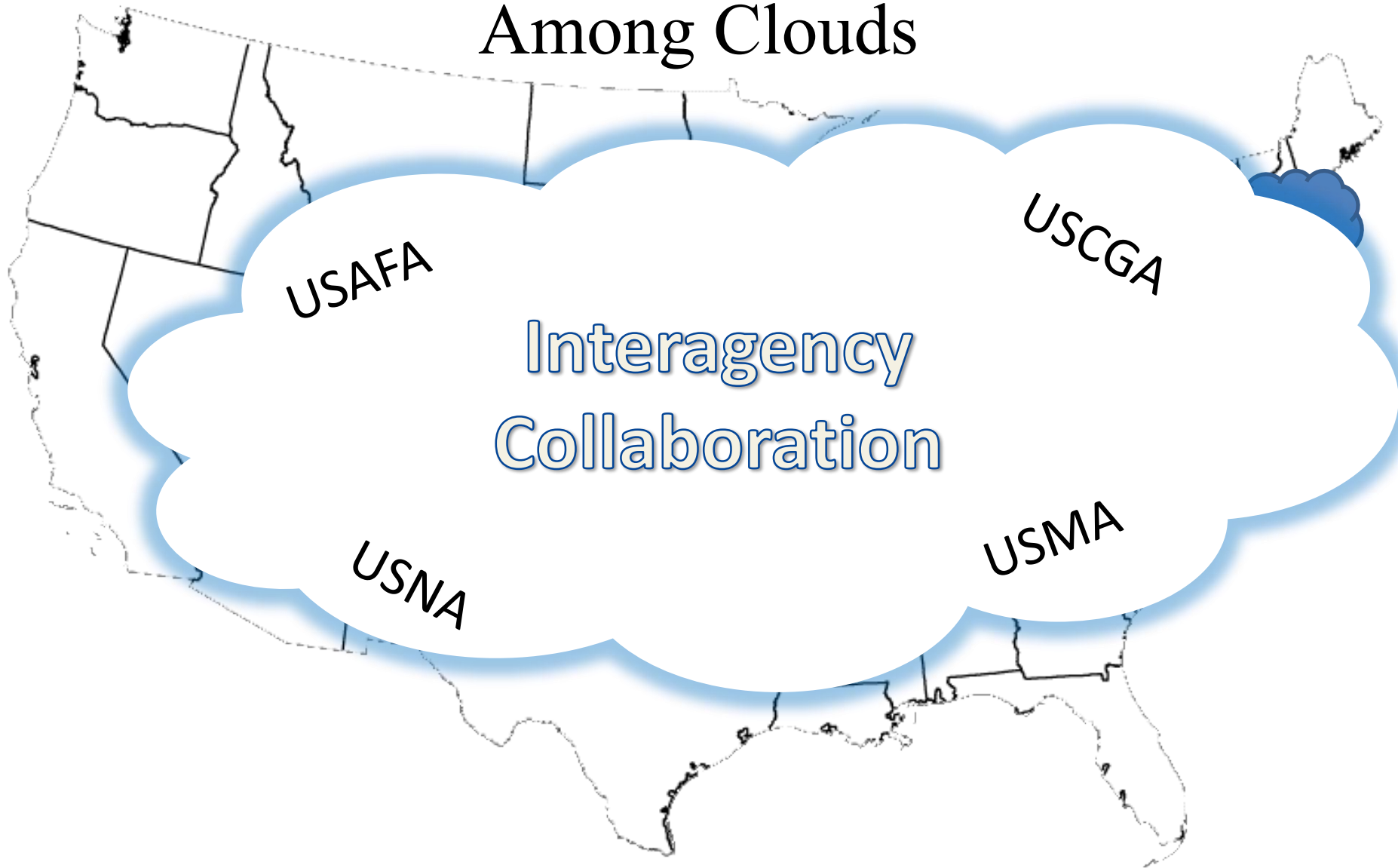


# Field Testing Interoperability Among Clouds





# Field Testing Interoperability Among Clouds



# Questions?



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